

# My Reproducible Manuscript

Lidiya Mishieva

## Meet Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

## Meet the penguins

The `penguins` data from the [palmerpenguins](#) package (M. Horst, Presmanes Hill, and B. Gorman 2022) contains size measurements for 344 penguins from three species observed on three islands in the Palmer Archipelago, Antarctica.

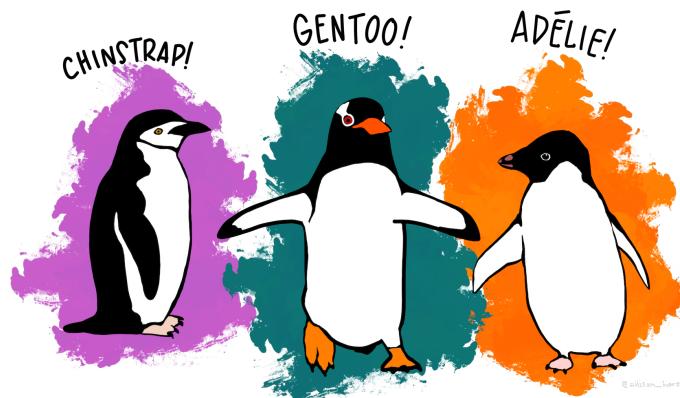


Figure 1: Amazing illustration

And this is just a random inline text reference for exercising purposes using the book by Gandrud (2018).

## Results

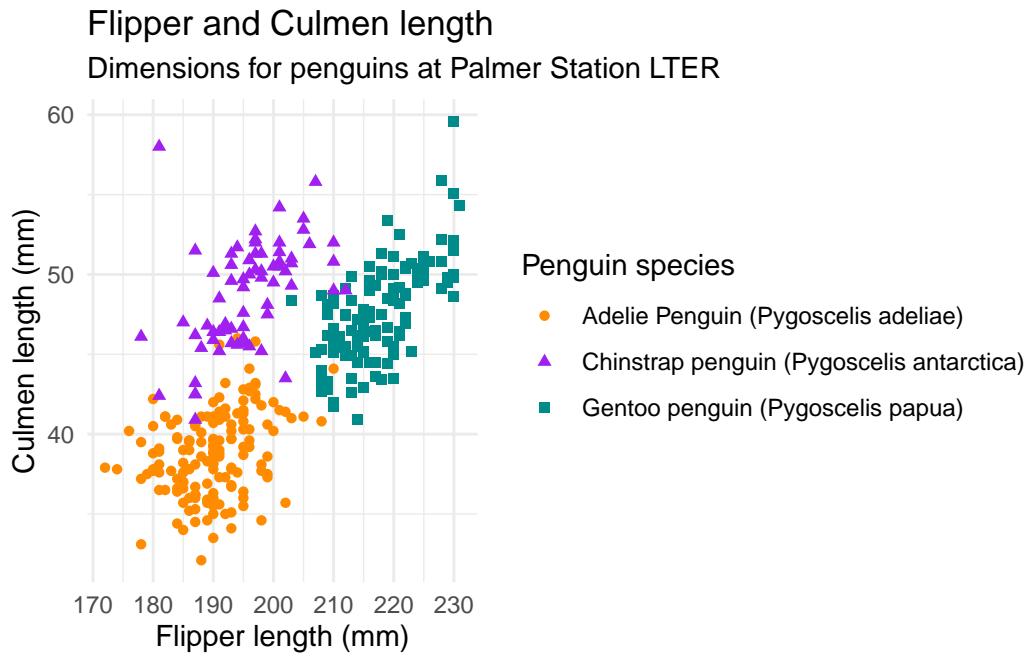


Figure 2: Amazing penguin scatterplot

Example of an inline code: 25 plus 25 equals 50. Also the data contains 152 Adelie penguins, 124 Gentoo penguins, and 68 Chinstrap penguins.

```
do_addition <- function(number1, number2){
```

```
    # Check that arguments provided are numeric
    if(class(number1) != "numeric" | class(number2) != "numeric"){
        print("Error: one or more of your inputs are not numeric")
```

```
    # Perform simple addition and return the result
    } else{
```

```
        result <- number1 + number2
        return(result)
    }
```

```
}
```

```
a <- 4
b <- 3
do_addition(a, b)
```

[1] 7

## References

- Gandrud, Christopher. 2018. *Reproducible Research with R and RStudio*. 2nd ed. Chapman; Hall/CRC. <https://doi.org/10.1201/9781315382548>.
- M. Horst, Allison, Alison Presmanes Hill, and Kristen B. Gorman. 2022. “Palmer Archipelago Penguins Data in the Palmerpenguins R Package - An Alternative to Anderson’s Irises.” *The R Journal* 14 (1): 244–54. <https://doi.org/10.32614/RJ-2022-020>.